



UTAH LEGISLATIVE VISIT UAMPS NEBO PLANT

JULY 31, 2019

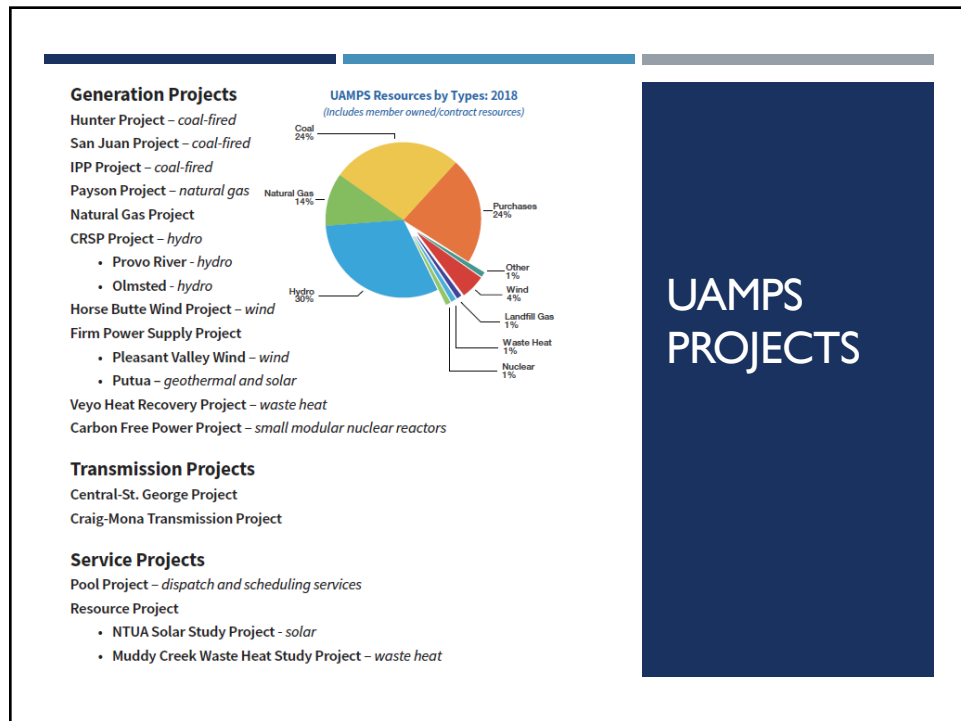
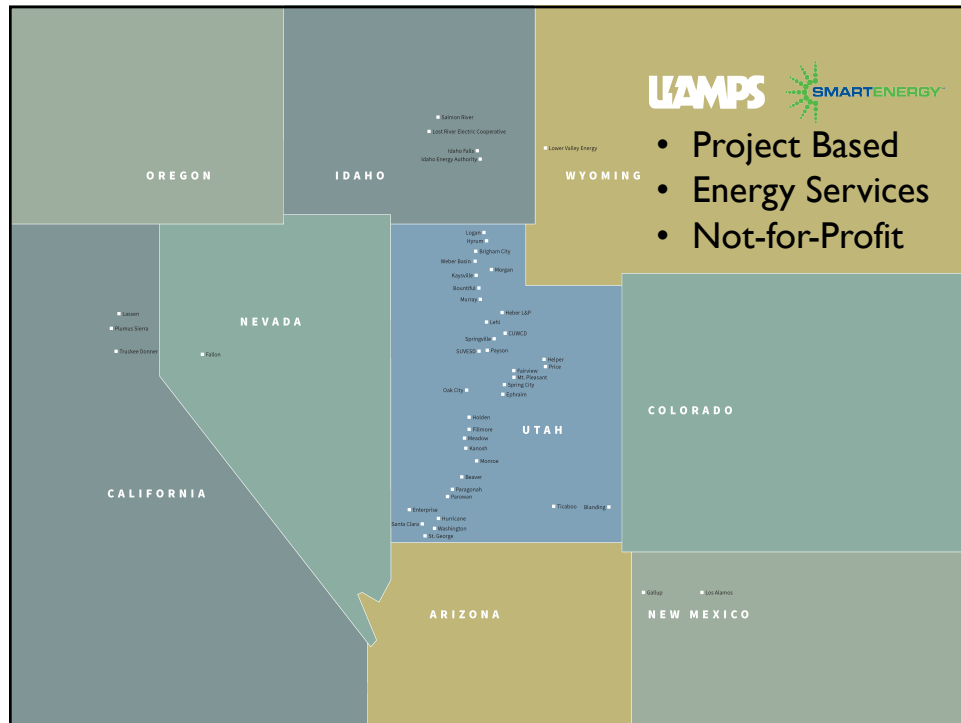


WHAT IS PUBLIC POWER?

- **Community powered**
 - Accountable to your constituents and local leaders
- **Affordable**
 - The rates for the utilities are on average cheaper
- **Reliable**
 - Public power loses power less often
- **Diverse resources**
 - All of the above approach
- **Giving back**
 - Community are shareholders and benefit



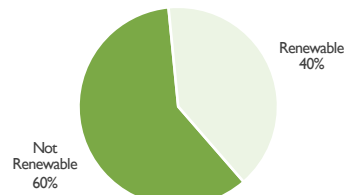
WHAT IS UAMPS?



UAMPS FUTURE RESOURCE MIX

The UAMPS Carbon Free Power Project is a realistic way UAMPS is adopting cleaner sources of energy

UAMPS Utah Renewable Resources 2025



UAMPS Utah Zero-carbon Resources 2028



A QUICK WORD ON UAMPS' CARBON FREE POWER PROJECT (CFPP)

- Started in 2015
- Decarbonized portfolio will be economically advantageous for its members
- UAMPS platform provides member autonomy to select electric resource mix
- Flexible resource (Nebo Plant) is not carbon free
- Project moving forward on schedule
- Nearly 80% of the cities that you represent are subscribed
- 2019 UAMPS meets subscription goal

CFPP Subscribed

Blanding
Brigham City
Enterprise
Ephraim
Fairview
Fillmore
Heber L&P
Holden
Kanosh
Lehi
Monroe
Mt. Pleasant
Murray
Oak City
Spring City

RED MESA TAPAHA SOLAR

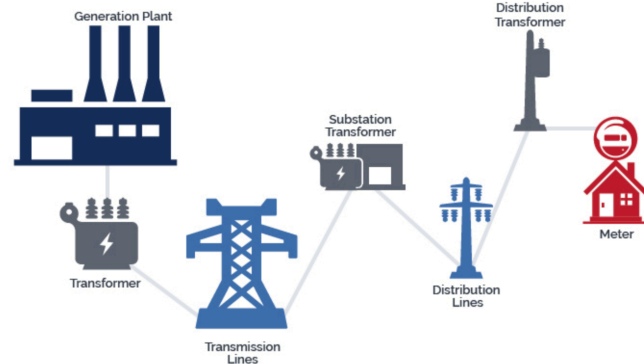
- Power Purchase Agreement with the Navajo Utility Authority (NTUA)
- 66 MW Solar Photovoltaic facility
- Located on the Navajo Nation in San Juan County, Utah
- Commercial Operation Date in June 2022
- NTUA will use proceeds to support electrification on the Navajo Nation



WHERE DOES ENERGY COME FROM
AND WHERE DOES IT GO?

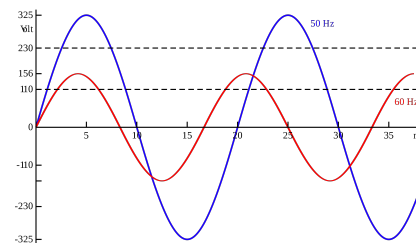
WHERE DOES IT GO (HOW IS IT TRANSPORTED)

The Electric Utility Network

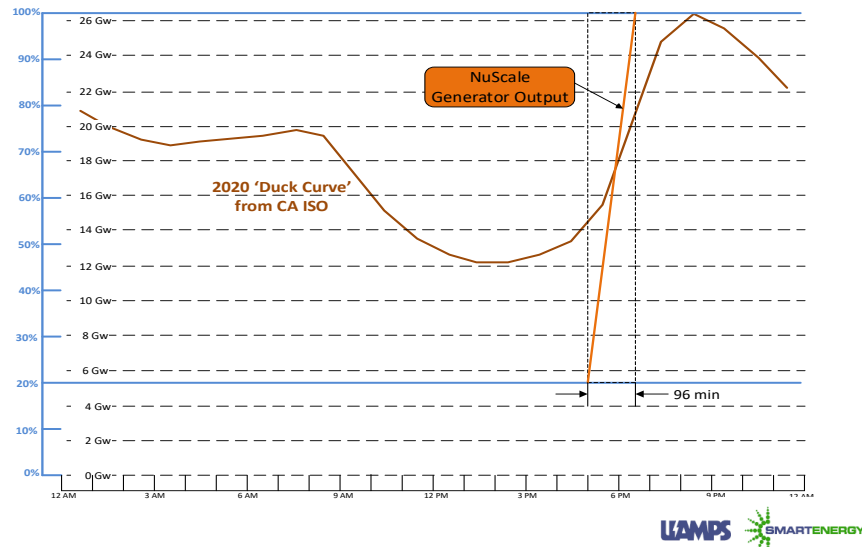


FREQUENCY AND WHY IT MATTERS – IT'S PHYSICS

- The electric grid must always be balanced – load must balance
- Balance or grid stability is measured by an equilibrium point, a frequency of 50 Hertz
- A slight imbalance can lead to blackouts
- Balance is maintained by grid operators and baseload
- Renewables intermittency if not planned can risk imbalance
- Intermittency can cause damage on transmission lines

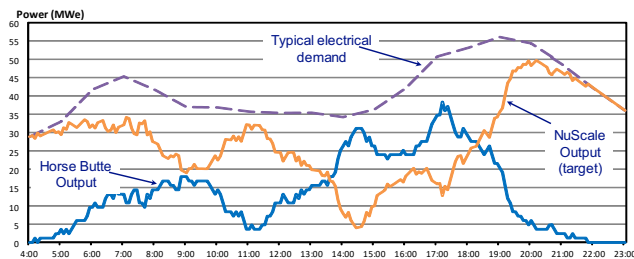


NUSCALE AND THE 2020 CALIFORNIA "DUCK CURVE"

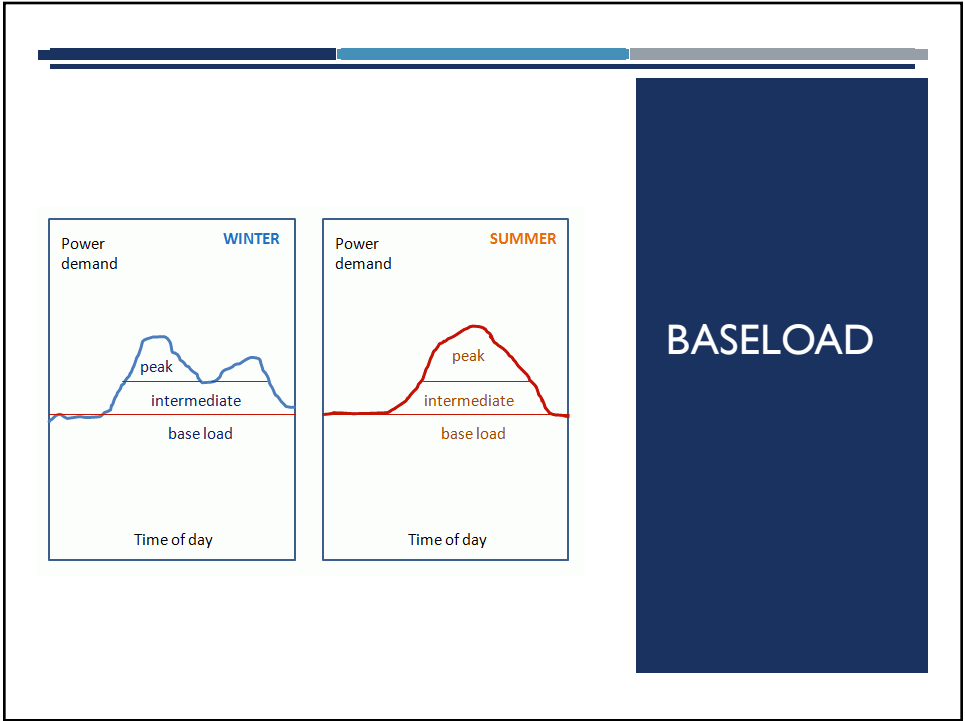


HORSE BUTTE WIND FARM

- Commissioned in 2012
- 32 Vestas V100 turbines
- 1.8 MWe capacity per turbine
- 57.6 MWe total capacity
- 17,600 acres



- Study used Typical Electrical Demand based on 24 hour output (Nov. 11, 2014)
- NuScale design meets or exceeds EPRI Utility Requirements Document (URD), Rev. 13, load following and other ancillary service requirements.



**UAMPS
NEBO
PLANT**

- General Electric Frame 7EA Gas turbine (combined cycle natural gas)
- Year built: June 2004
- Generating capacity: 140 MW
- Employees: 13 employees

